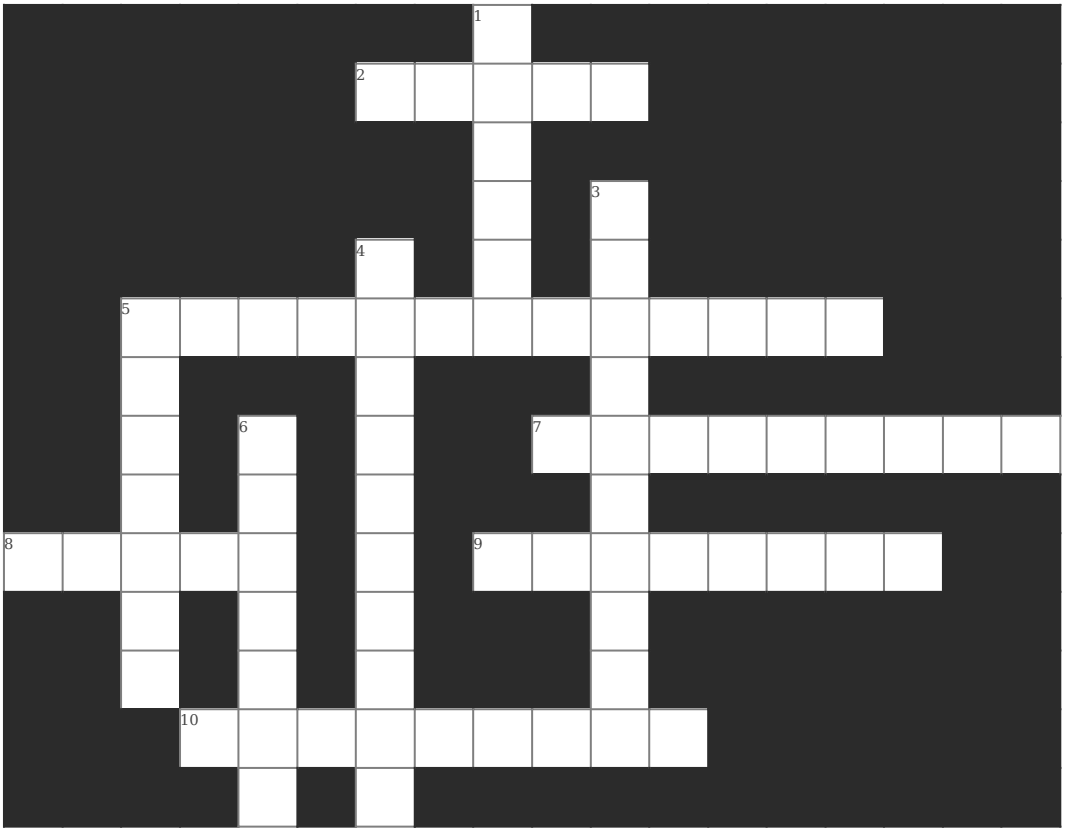
Part 7b · The Crossword

Same rules as an ordinary crossword — but every word is maths vocabulary from this chapter.



ACROSS

2. gave the first correct proof of the Fundamental Theorem of Arithmetic (5)

5. the logical dead-end reached when an assumption must be false (13)

7. a number with more than two factors, factorisable into primes (9)

8. a number greater than 1 with exactly two factors (5)

9. can be written as p/q for integers p, q with q ≠ 0 (8)

10. what is left over after division (9)

DOWN

1. ancient mathematician behind the division algorithm (6)

3. diagram used to break a number down into its prime factors (10)

4. cannot be written as p/q for integers p, q with q ≠ 0 (10)

5. two numbers whose only common factor is 1 (7)

6. a mathematical statement proved to be true (7)

Every proof in this chapter, from HCF to √2, comes back to one fact: primes factorise a number in exactly one way. Hold onto that, and the rest follows. □√2